

Abstract:

5 This invention relates to a method to characterize an array of polymeric materials comprising:
deposition wettable, preferably unsilanizable material, onto a substrate which is preferably
10 silanizable, in at least 10 regions, thereafter contacting the substrate with a non-wettable
material, preferably an organosilane agent, thereby rendering the substrate non-wettable,
preferably silanizing the substrate, but not the wettable, preferably unsilanizable, material in
said regions, optionally, partially or completely removing the wettable, preferably
15 unsilanizable, material, depositing at least 10 polymeric materials onto said regions, and
characterizing the materials. This invention also relates to a method for forming an array of
polymeric materials to be characterized onto a substrate comprising: (a) selecting ten or more
polymers, (b) dissolving or suspending each polymer in a separate liquid, and (c) depositing a
uniform amount of each of the ten or more polymers containing liquids onto a substrate in
individual wettable, preferably hydrophilic and/or hydrophobic, regions. Likewise this
invention also relates to an array of polymeric materials for use in characterization,
comprising: (a) a substrate having multiple regions on the substrate that are not coated with a
non-wettable material, preferably an organosilane, and wherein the uncoated regions have a
border of a non-wettable, preferably an organosilane agent, coated on the substrate, and (b) a
20 polymer deposited on the regions not coated with the non-wettable material, preferably an
organosilane agent.